

PAT-NO: JP408231317A

DOCUMENT-IDENTIFIER: JP 08231317 A

TITLE: ANTIMICROBIAL AND ANTIFUNGAL COMPOSITION FOR  
THERMOPLASTIC RESIN

PUBN-DATE: September 10, 1996

INVENTOR-INFORMATION:

NAME

SUYAMA, TOMIYOSHI

TSURUOKA, MASAFUMI

MURAMATSU, TAKAHIRO

ASSIGNEE-INFORMATION:

NAME

DAIWA KAGAKU KOGYO KK

COUNTRY

N/A

APPL-NO: JP07078053

APPL-DATE: February 28, 1995

INT-CL (IPC): A01N043/80, A01N025/10 , C08K005/47

ABSTRACT:

PURPOSE: To obtain composition for a thermoplastic resin, excellent in heat resistance and antifungal properties by synergistic effects and having high safety by effectively blending two ingredients of 2-octyl-4-isothiazolin-3-one with N-(2,4,6-trichlorophenyl)maleimide.

CONSTITUTION: This antimicrobial and antifungal composition for incorporating a thermoplastic resin is obtained by blending two ingredients of 2-octyl-4-isothiazolin-3-one with N-(2,4,6-trichlorophenyl)maleimide at a blending ratio within the range of about (1:20) to (30:1), preferably (1:15) to (10:1). For example, a polyethylene resin, a polyester resin or a polyamide

resin is cited as the thermoplastic resin in which the antimicrobial and antifungal agent is used; however, an olefin-based resin is especially preferred. The amount of the added antimicrobial and antifungal agent based on the resin is about 0.005-0.1wt.% and the temperature in addition is preferably about 160-280&deg;C. When the 2-octyl-4-isothiazolin-3-one is blended with zinc oxide at about (1:1) to (1:20) ratio, the antimicrobial and antifungal activities and heat-resistant temperature can be raised.

COPYRIGHT: (C)1996,JPO